

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Lockwood, Kessler & Bartlett, Inc.

SDG No.: Q3202

Contract: LOCK01

Lab Code: ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Antimony	4080	4000	102	90 - 110	P	10/01/2025	12:33	LB137389
	Arsenic	3990	4000	100	90 - 110	P	10/01/2025	12:33	LB137389
	Barium	7680	8000	96	90 - 110	P	10/01/2025	12:33	LB137389
	Beryllium	198	200	99	90 - 110	P	10/01/2025	12:33	LB137389
	Cadmium	1970	2000	98	90 - 110	P	10/01/2025	12:33	LB137389
	Chromium	796	800	100	90 - 110	P	10/01/2025	12:33	LB137389
	Cobalt	1960	2000	98	90 - 110	P	10/01/2025	12:33	LB137389
	Copper	1010	1000	101	90 - 110	P	10/01/2025	12:33	LB137389
	Iron	3860	4000	96	90 - 110	P	10/01/2025	12:33	LB137389
	Lead	3860	4000	96	90 - 110	P	10/01/2025	12:33	LB137389
	Manganese	1940	2000	97	90 - 110	P	10/01/2025	12:33	LB137389
	Nickel	1970	2000	98	90 - 110	P	10/01/2025	12:33	LB137389
	Potassium	19100	20000	96	90 - 110	P	10/01/2025	12:33	LB137389
	Selenium	4040	4000	101	90 - 110	P	10/01/2025	12:33	LB137389
	Silver	945	1000	94	90 - 110	P	10/01/2025	12:33	LB137389
	Sodium	18900	20000	94	90 - 110	P	10/01/2025	12:33	LB137389
	Thallium	3950	4000	99	90 - 110	P	10/01/2025	12:33	LB137389
	Vanadium	1930	2000	97	90 - 110	P	10/01/2025	12:33	LB137389
	Zinc	1970	2000	98	90 - 110	P	10/01/2025	12:33	LB137389

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LLICV01	Antimony	49.5	50.0	99	80 - 120	P	10/01/2025	12:41	LB137389
	Arsenic	21.1	20.0	106	80 - 120	P	10/01/2025	12:41	LB137389
	Barium	98.9	100	99	80 - 120	P	10/01/2025	12:41	LB137389
	Beryllium	6.29	6.0	105	80 - 120	P	10/01/2025	12:41	LB137389
	Cadmium	5.97	6.0	99	80 - 120	P	10/01/2025	12:41	LB137389
	Chromium	9.87	10.0	99	80 - 120	P	10/01/2025	12:41	LB137389
	Cobalt	30.0	30.0	100	80 - 120	P	10/01/2025	12:41	LB137389
	Copper	21.3	20.0	106	80 - 120	P	10/01/2025	12:41	LB137389
	Iron	107	100	107	80 - 120	P	10/01/2025	12:41	LB137389
	Lead	11.1	12.0	93	80 - 120	P	10/01/2025	12:41	LB137389
	Manganese	20.9	20.0	104	80 - 120	P	10/01/2025	12:41	LB137389
	Nickel	40.0	40.0	100	80 - 120	P	10/01/2025	12:41	LB137389
	Potassium	1880	2000	94	80 - 120	P	10/01/2025	12:41	LB137389
	Selenium	20.5	20.0	102	80 - 120	P	10/01/2025	12:41	LB137389
	Silver	9.94	10.0	99	80 - 120	P	10/01/2025	12:41	LB137389
	Sodium	1870	2000	94	80 - 120	P	10/01/2025	12:41	LB137389
	Thallium	42.8	40.0	107	80 - 120	P	10/01/2025	12:41	LB137389
	Vanadium	40.9	40.0	102	80 - 120	P	10/01/2025	12:41	LB137389
	Zinc	41.5	40.0	104	80 - 120	P	10/01/2025	12:41	LB137389

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Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Antimony	4990	5000	100	90 - 110	P	10/01/2025	13:10	LB137389
	Arsenic	5020	5000	100	90 - 110	P	10/01/2025	13:10	LB137389
	Barium	10000	10000	100	90 - 110	P	10/01/2025	13:10	LB137389
	Beryllium	254	250	101	90 - 110	P	10/01/2025	13:10	LB137389
	Cadmium	2490	2500	100	90 - 110	P	10/01/2025	13:10	LB137389
	Chromium	1000	1000	100	90 - 110	P	10/01/2025	13:10	LB137389
	Cobalt	2480	2500	99	90 - 110	P	10/01/2025	13:10	LB137389
	Copper	1260	1250	100	90 - 110	P	10/01/2025	13:10	LB137389
	Iron	4920	5000	98	90 - 110	P	10/01/2025	13:10	LB137389
	Lead	4950	5000	99	90 - 110	P	10/01/2025	13:10	LB137389
	Manganese	2520	2500	101	90 - 110	P	10/01/2025	13:10	LB137389
	Nickel	2490	2500	99	90 - 110	P	10/01/2025	13:10	LB137389
	Potassium	24500	25000	98	90 - 110	P	10/01/2025	13:10	LB137389
	Selenium	5030	5000	101	90 - 110	P	10/01/2025	13:10	LB137389
	Silver	1250	1250	100	90 - 110	P	10/01/2025	13:10	LB137389
	Sodium	24700	25000	99	90 - 110	P	10/01/2025	13:10	LB137389
	Thallium	5200	5000	104	90 - 110	P	10/01/2025	13:10	LB137389
	Vanadium	2500	2500	100	90 - 110	P	10/01/2025	13:10	LB137389
	Zinc	2510	2500	100	90 - 110	P	10/01/2025	13:10	LB137389
CCV02	Antimony	5000	5000	100	90 - 110	P	10/01/2025	14:02	LB137389
	Arsenic	5030	5000	101	90 - 110	P	10/01/2025	14:02	LB137389
	Barium	9940	10000	99	90 - 110	P	10/01/2025	14:02	LB137389
	Beryllium	250	250	100	90 - 110	P	10/01/2025	14:02	LB137389
	Cadmium	2500	2500	100	90 - 110	P	10/01/2025	14:02	LB137389
	Chromium	996	1000	100	90 - 110	P	10/01/2025	14:02	LB137389
	Cobalt	2480	2500	99	90 - 110	P	10/01/2025	14:02	LB137389
	Copper	1260	1250	100	90 - 110	P	10/01/2025	14:02	LB137389
	Iron	4910	5000	98	90 - 110	P	10/01/2025	14:02	LB137389
	Lead	4960	5000	99	90 - 110	P	10/01/2025	14:02	LB137389
	Manganese	2490	2500	100	90 - 110	P	10/01/2025	14:02	LB137389
	Nickel	2490	2500	100	90 - 110	P	10/01/2025	14:02	LB137389
	Potassium	25100	25000	100	90 - 110	P	10/01/2025	14:02	LB137389
	Selenium	5070	5000	101	90 - 110	P	10/01/2025	14:02	LB137389
	Silver	1240	1250	99	90 - 110	P	10/01/2025	14:02	LB137389

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SDG No.: Q3202

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Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Sodium	24400	25000	98	90 - 110	P	10/01/2025	14:02	LB137389
	Thallium	5110	5000	102	90 - 110	P	10/01/2025	14:02	LB137389
	Vanadium	2490	2500	100	90 - 110	P	10/01/2025	14:02	LB137389
	Zinc	2470	2500	99	90 - 110	P	10/01/2025	14:02	LB137389
CCV03	Antimony	5070	5000	102	90 - 110	P	10/01/2025	15:00	LB137389
	Arsenic	5090	5000	102	90 - 110	P	10/01/2025	15:00	LB137389
	Barium	10100	10000	101	90 - 110	P	10/01/2025	15:00	LB137389
	Beryllium	254	250	102	90 - 110	P	10/01/2025	15:00	LB137389
	Cadmium	2540	2500	102	90 - 110	P	10/01/2025	15:00	LB137389
	Chromium	1010	1000	101	90 - 110	P	10/01/2025	15:00	LB137389
	Cobalt	2530	2500	101	90 - 110	P	10/01/2025	15:00	LB137389
	Copper	1280	1250	102	90 - 110	P	10/01/2025	15:00	LB137389
	Iron	4980	5000	100	90 - 110	P	10/01/2025	15:00	LB137389
	Lead	5050	5000	101	90 - 110	P	10/01/2025	15:00	LB137389
	Manganese	2540	2500	102	90 - 110	P	10/01/2025	15:00	LB137389
	Nickel	2540	2500	102	90 - 110	P	10/01/2025	15:00	LB137389
	Potassium	24700	25000	99	90 - 110	P	10/01/2025	15:00	LB137389
	Selenium	5080	5000	102	90 - 110	P	10/01/2025	15:00	LB137389
	Silver	1250	1250	100	90 - 110	P	10/01/2025	15:00	LB137389
	Sodium	24400	25000	98	90 - 110	P	10/01/2025	15:00	LB137389
	Thallium	5030	5000	101	90 - 110	P	10/01/2025	15:00	LB137389
	Vanadium	2530	2500	101	90 - 110	P	10/01/2025	15:00	LB137389
	Zinc	2530	2500	101	90 - 110	P	10/01/2025	15:00	LB137389
CCV04	Antimony	5030	5000	101	90 - 110	P	10/01/2025	15:51	LB137389
	Arsenic	5040	5000	101	90 - 110	P	10/01/2025	15:51	LB137389
	Barium	10000	10000	100	90 - 110	P	10/01/2025	15:51	LB137389
	Beryllium	257	250	103	90 - 110	P	10/01/2025	15:51	LB137389
	Cadmium	2520	2500	101	90 - 110	P	10/01/2025	15:51	LB137389
	Chromium	1020	1000	102	90 - 110	P	10/01/2025	15:51	LB137389
	Cobalt	2510	2500	100	90 - 110	P	10/01/2025	15:51	LB137389
	Copper	1270	1250	101	90 - 110	P	10/01/2025	15:51	LB137389
	Iron	4960	5000	99	90 - 110	P	10/01/2025	15:51	LB137389
	Lead	5000	5000	100	90 - 110	P	10/01/2025	15:51	LB137389
	Manganese	2520	2500	101	90 - 110	P	10/01/2025	15:51	LB137389

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Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Nickel	2510	2500	100	90 - 110	P	10/01/2025	15:51	LB137389
	Potassium	25100	25000	101	90 - 110	P	10/01/2025	15:51	LB137389
	Selenium	5050	5000	101	90 - 110	P	10/01/2025	15:51	LB137389
	Silver	1260	1250	101	90 - 110	P	10/01/2025	15:51	LB137389
	Sodium	24900	25000	100	90 - 110	P	10/01/2025	15:51	LB137389
	Thallium	4960	5000	99	90 - 110	P	10/01/2025	15:51	LB137389
	Vanadium	2510	2500	100	90 - 110	P	10/01/2025	15:51	LB137389
	Zinc	2540	2500	102	90 - 110	P	10/01/2025	15:51	LB137389
CCV05	Antimony	5000	5000	100	90 - 110	P	10/01/2025	16:42	LB137389
	Arsenic	4990	5000	100	90 - 110	P	10/01/2025	16:42	LB137389
	Barium	9950	10000	100	90 - 110	P	10/01/2025	16:42	LB137389
	Beryllium	251	250	100	90 - 110	P	10/01/2025	16:42	LB137389
	Cadmium	2500	2500	100	90 - 110	P	10/01/2025	16:42	LB137389
	Chromium	1010	1000	101	90 - 110	P	10/01/2025	16:42	LB137389
	Cobalt	2480	2500	99	90 - 110	P	10/01/2025	16:42	LB137389
	Copper	1260	1250	100	90 - 110	P	10/01/2025	16:42	LB137389
	Iron	4990	5000	100	90 - 110	P	10/01/2025	16:42	LB137389
	Lead	4960	5000	99	90 - 110	P	10/01/2025	16:42	LB137389
	Manganese	2490	2500	100	90 - 110	P	10/01/2025	16:42	LB137389
	Nickel	2490	2500	100	90 - 110	P	10/01/2025	16:42	LB137389
	Potassium	27100	25000	109	90 - 110	P	10/01/2025	16:42	LB137389
	Selenium	5020	5000	100	90 - 110	P	10/01/2025	16:42	LB137389
	Silver	1250	1250	100	90 - 110	P	10/01/2025	16:42	LB137389
	Sodium	25800	25000	103	90 - 110	P	10/01/2025	16:42	LB137389
	Thallium	4890	5000	98	90 - 110	P	10/01/2025	16:42	LB137389
	Vanadium	2490	2500	100	90 - 110	P	10/01/2025	16:42	LB137389
	Zinc	2520	2500	101	90 - 110	P	10/01/2025	16:42	LB137389
	Antimony	5110	5000	102	90 - 110	P	10/01/2025	17:32	LB137389
CCV06	Arsenic	5130	5000	102	90 - 110	P	10/01/2025	17:32	LB137389
	Barium	9920	10000	99	90 - 110	P	10/01/2025	17:32	LB137389
	Beryllium	251	250	100	90 - 110	P	10/01/2025	17:32	LB137389
	Cadmium	2530	2500	101	90 - 110	P	10/01/2025	17:32	LB137389
	Chromium	1010	1000	101	90 - 110	P	10/01/2025	17:32	LB137389
	Cobalt	2520	2500	101	90 - 110	P	10/01/2025	17:32	LB137389

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Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV06	Copper	1280	1250	102	90 - 110	P	10/01/2025	17:32	LB137389
	Iron	4940	5000	99	90 - 110	P	10/01/2025	17:32	LB137389
	Lead	5030	5000	100	90 - 110	P	10/01/2025	17:32	LB137389
	Manganese	2500	2500	100	90 - 110	P	10/01/2025	17:32	LB137389
	Nickel	2530	2500	101	90 - 110	P	10/01/2025	17:32	LB137389
	Potassium	27100	25000	108	90 - 110	P	10/01/2025	17:32	LB137389
	Selenium	5180	5000	104	90 - 110	P	10/01/2025	17:32	LB137389
	Silver	1240	1250	99	90 - 110	P	10/01/2025	17:32	LB137389
	Sodium	25500	25000	102	90 - 110	P	10/01/2025	17:32	LB137389
	Thallium	5010	5000	100	90 - 110	P	10/01/2025	17:32	LB137389
	Vanadium	2510	2500	100	90 - 110	P	10/01/2025	17:32	LB137389
	Zinc	2520	2500	101	90 - 110	P	10/01/2025	17:32	LB137389
CCV07	Antimony	5040	5000	101	90 - 110	P	10/01/2025	18:28	LB137389
	Arsenic	5040	5000	101	90 - 110	P	10/01/2025	18:28	LB137389
	Barium	10000	10000	100	90 - 110	P	10/01/2025	18:28	LB137389
	Beryllium	246	250	98	90 - 110	P	10/01/2025	18:28	LB137389
	Cadmium	2500	2500	100	90 - 110	P	10/01/2025	18:28	LB137389
	Chromium	1000	1000	100	90 - 110	P	10/01/2025	18:28	LB137389
	Cobalt	2500	2500	100	90 - 110	P	10/01/2025	18:28	LB137389
	Copper	1260	1250	101	90 - 110	P	10/01/2025	18:28	LB137389
	Iron	5110	5000	102	90 - 110	P	10/01/2025	18:28	LB137389
	Lead	4970	5000	99	90 - 110	P	10/01/2025	18:28	LB137389
	Manganese	2510	2500	100	90 - 110	P	10/01/2025	18:28	LB137389
	Nickel	2500	2500	100	90 - 110	P	10/01/2025	18:28	LB137389
	Potassium	26100	25000	104	90 - 110	P	10/01/2025	18:28	LB137389
	Selenium	5050	5000	101	90 - 110	P	10/01/2025	18:28	LB137389
	Silver	1250	1250	100	90 - 110	P	10/01/2025	18:28	LB137389
	Sodium	25100	25000	100	90 - 110	P	10/01/2025	18:28	LB137389
	Thallium	4950	5000	99	90 - 110	P	10/01/2025	18:28	LB137389
	Vanadium	2510	2500	100	90 - 110	P	10/01/2025	18:28	LB137389
	Zinc	2520	2500	101	90 - 110	P	10/01/2025	18:28	LB137389
CCV08	Antimony	4940	5000	99	90 - 110	P	10/01/2025	19:19	LB137389
	Arsenic	4930	5000	99	90 - 110	P	10/01/2025	19:19	LB137389
	Barium	9710	10000	97	90 - 110	P	10/01/2025	19:19	LB137389

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CCV08	Beryllium	248	250	99	90 - 110	P	10/01/2025	19:19	LB137389
	Cadmium	2450	2500	98	90 - 110	P	10/01/2025	19:19	LB137389
	Chromium	992	1000	99	90 - 110	P	10/01/2025	19:19	LB137389
	Cobalt	2440	2500	98	90 - 110	P	10/01/2025	19:19	LB137389
	Copper	1230	1250	99	90 - 110	P	10/01/2025	19:19	LB137389
	Iron	4870	5000	97	90 - 110	P	10/01/2025	19:19	LB137389
	Lead	4860	5000	97	90 - 110	P	10/01/2025	19:19	LB137389
	Manganese	2450	2500	98	90 - 110	P	10/01/2025	19:19	LB137389
	Nickel	2440	2500	98	90 - 110	P	10/01/2025	19:19	LB137389
	Potassium	24700	25000	99	90 - 110	P	10/01/2025	19:19	LB137389
	Selenium	4960	5000	99	90 - 110	P	10/01/2025	19:19	LB137389
	Silver	1230	1250	99	90 - 110	P	10/01/2025	19:19	LB137389
	Sodium	23800	25000	95	90 - 110	P	10/01/2025	19:19	LB137389
	Thallium	4620	5000	92	90 - 110	P	10/01/2025	19:19	LB137389
	Vanadium	2470	2500	99	90 - 110	P	10/01/2025	19:19	LB137389
	Zinc	2500	2500	100	90 - 110	P	10/01/2025	19:19	LB137389